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(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
7 October 2004 (07.10.2004)

PCT

(10) International Publication Number
WO 2004/085499 A2

(51) International Patent Classification⁷: C08F 210/02, (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number: PCT/EP2004/003112

(22) International Filing Date: 24 March 2004 (24.03.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 03251855.7 25 March 2003 (25.03.2003) EP

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(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/085499 A2

(54) Title: PROCESS

(57) Abstract: A process for the preparation of an olefin homopolymer or copolymer comprising polymerising at least one C₂₋₂₀- α -olefin in slurry phase in the presence of 1) a metallocene compound of formula I: (Cp) (Cp') R_nMX₂ (I) wherein: Cp is an optionally substituted and/or optionally fused homo- or heterocyclopentadienyl ligand; Cp' is a cyclopentadienyl substituted by at least one C₁₋₂₀-alkyl group; R is a bridge of 1-7 bridging atoms; M is a group 4 to 6 transition metal; each X is -CH₂-Y, wherein Y is C₆₋₂₀-aryl, C₆₋₂₀-heteroaryl, C₁₋₂₀-alkoxy, C₆₋₂₀-aryloxy, -NR'₂, -SR'₃, -SiR'₃, -OSiR'₃ or halogen; R' is C₁₋₂₀-hydrocarbyl or in case of -NR'₂, the two substituents R' can form a ring together with the nitrogen atom wherein they are attached to; and each non-cyclopentadienyl ring moiety can further be substituted; n is 0 or 1; and (II) an aluminoxane.